

COMPILER INDEPENDENT BIT-FIELD MACROS

Abstract

A set of programming macros implement bit-fields in a variable, such as an unsigned integer structure having a bit-field definition number associated with each bit-field. The bit-field definition numbers have a value that defines the associated bit-field in terms of its end bits. In various embodiments, the macros extract the end bits from the value of the structure elements to form mask and shift values with which to manipulate the bit-fields.